Midterm practice: Factor difference of squares

First factor any common factors. Then, identify the difference of squares to help factor the expression.

1. Fully factor $72x^2 - 2$

2. Fully factor $18x^2 - 2$

3. Fully factor $125x^2 - 5$

4. Fully factor $8x^2 - 2$

5. Fully factor $16x^2 - 4$

6. Fully factor $20x^2 - 5$

7. Fully factor $x^2 - 16$

8. Fully factor $3x^2 - 75$

9. Fully factor $75x^2 - 3$

10. Fully factor $80x^2 - 5$

11. Fully factor $50x^2 - 2$

12. Fully factor $2x^2 - 72$

13. Fully factor $x^2 - 81$

14. Fully factor $196x^2 - 4$

15. Fully factor $12x^2 - 3$

16. Fully factor $16x^2 - 1$

17. Fully factor $5x^2 - 45$

18. Fully factor $108x^2 - 3$

19. Fully factor $162x^2 - 2$

20. Fully factor $x^2 - 4$

4. $2(2x+1)(2x-1)$

12. $2(x+6)(x-6)$

2. $2(3x+1)(3x-1)$

19. $2(9x+1)(9x-1)$

5. $4(2x+1)(2x-1)$

6. $5(2x+1)(2x-1)$

17. $5(x+3)(x-3)$

7. $(x+4)(x-4)$

11. $2(5x+1)(5x-1)$

18. $3(6x+1)(6x-1)$

16. $(4x+1)(4x-1)$

10. $5(4x+1)(4x-1)$

1. $2(6x+1)(6x-1)$

14. $4(7x+1)(7x-1)$

15. $3(2x+1)(2x-1)$

13. $(x+9)(x-9)$

9. $3(5x+1)(5x-1)$

20. $(x+2)(x-2)$

3. $5(5x+1)(5x-1)$

8. $3(x+5)(x-5)$